# OPERATING INSTRUCTIONS

JVC

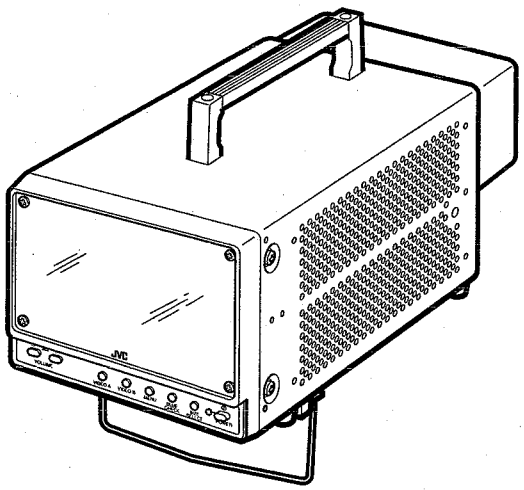
## LCCS VIDEO MONITOR

**BEDIENUNGSANLEITUNG : LCCS-VIDEO-MONITOR**
**MANUEL D'INSTRUCTIONS : MONITEUR VIDÉO LCCS**
**MANUALE DI ISTRUZIONI : MONITOR VIDEO LCCS**
**INSTRUCCIONES : MONITOR DE VIDEO LCCS**

# TM-L500PN

## INSTRUCTIONS

ENGLISH
DEUTSCH
FRANÇAIS
ITALIANO
ESPAÑOL



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INSTRUCTIONS

# LCCS VIDEO MONITOR

# TM-L500PN

ENGLISH


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No.51584

**Thank you for purchasing this JVC LCCS video monitor.**

Before using, read and follow all instructions carefully to take full advantage of the monitor's capabilities. Retain these instructions for future reference.

* LCCS = Liquid Crystal Colour Shutter

# SAFETY PRECAUTIONS

**WARNING :**

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

**WARNING :**

THIS APPARATUS MUST BE EARTHED.

**CAUTION :**

To reduce the risk of electric shock, do not remove cover.
Refer servicing to qualified service personnel.

**CAUTION :**

This equipment has not means of disconnection from mains, therefore please be considered following condition.

- for PERMANENTLY CONNECTED EQUIPMENT, that a readily accessible disconnect device shall be incorporated in the fixed wiring;
- for PLUGGABLE EQUIPMENT, that the socket-outlet shall be installed near the equipment and shall be easily accessible.

Improper operations, in particular alternation of high voltage or changing the type of tube may result in x-ray emission of considerable dose. A unit altered in such a way no longer meets the standards of certification, and must therefore no longer be operated.

## ■ PRECAUTIONS

- Use only the power source specified on the unit. (100 V AC – 240 V AC, 50 Hz/60 Hz or 12 V DC)
- Keep flammable material, water, and metal objects away from the unit – especially the interior of the unit.
- This unit incorporates high voltage circuitry. For your own safety and that of your equipment, do not attempt to modify or disassemble this monitor. There are no user-serviceable parts inside.
- Unplug the monitor when you're not going to be using it for a long period.

## ■ HANDLING

- Avoid shocks or vibrations. These may damage the unit and cause it to malfunction.
- DO NOT block the ventilation slots.
- DO NOT expose this unit to high temperatures. Extended exposure to direct sunlight or a heater could deform the cabinet or cause the performance of internal components to deteriorate.
- DO NOT place the unit near appliances generating strong electric or magnetic fields. There can generate picture noise and instability.
- DO NOT do any of the following; it may damage the cabinet or cause the paint to peel off:
  - Wipe the monitor with an abrasive cloth,
  - Wipe the monitor with too much pressure,
  - Wipe the monitor with thinner or benzine,
  - Place rubber or vinyl products on the monitor for long periods of time.
- Keep the monitor clean by wiping the cabinet or protective panel with a soft cloth. If there is an excessive amount of dirt, use a diluted neutral cleanser, then wipe clean with a dry cloth.
- This monitor has a built-in intake fan. Extended use causes dirt to accumulate on the fan, so wipe it clean periodically.

## SCREEN BURN

- Try to avoid displaying still images or extremely bright images on the screen for an extended period of time. If left on screen for too long the image will be permanently etched onto the CRT — a phenomenon known as "screen burn". Screen burn is not a problem when displaying moving pictures during video playback.



## POWER CONNECTION (Only for United Kingdom-type power cord)

The plug on the United Kingdom-type power cord has a built-in fuse.

### WARNING

**Do not cut off the main plug from this equipment.**
If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or adapter or consult your dealer.

If nonetheless the mains plug is cut off, remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the main supply.

If a new main plug has to be fitted, then follow the instruction given below:

**WARNING:**
THIS APPARATUS MUST BE EARTHED.

**IMPORTANT.**
The wires in the mains lead on this product are coloured in accordance with the following cord:

| | |
|---|---|
| Green-and-yellow | : Earth |
| Blue | : Neutral |
| Brown | : Live |

As these colours may not correspond with the coloured making identifying the terminals in your plug, proceed as follows:

The wire which is coloured green-and-yellow must be connected to the terminal which is marked with the letter E or the safety earth symbol ⏚ or coloured green or green-and-yellow.

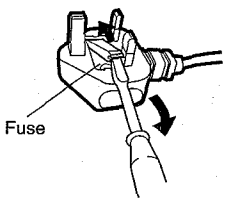
The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

When replacing the fuse, be sure to use only a correctly rated approved type, re-fit the fuse cover.

**IF IN DOUBT —— CONSULT A COMPETENT ELECTRICIAN.**

**How To Replace The Fuse**
Open the fuse compartment with the blade screwdriver, and replace the fuse.
(* An example is shown in the illustration below.)

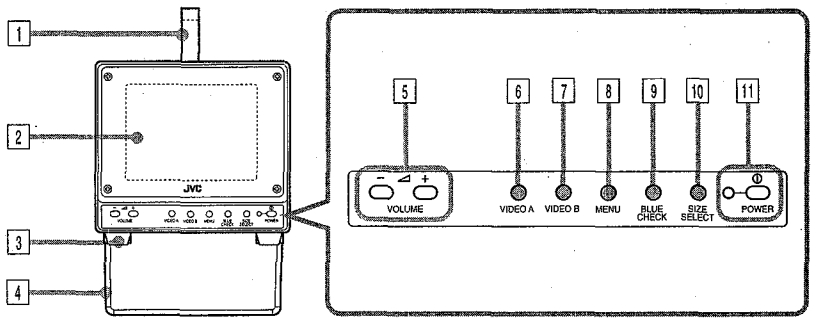



ENGLISH

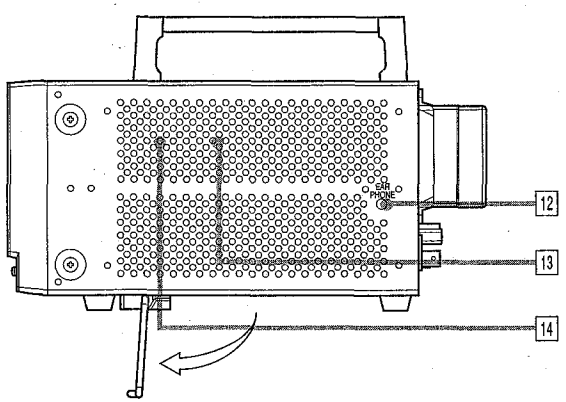
# CONTROLS AND FEATURES

## PRODUCT: FRONT & RIGHT VIEW

### FRONT VIEW




### RIGHT VIEW




### FRONT VIEW

**1 Carrying Handle**
Used to carry the monitor.
Can be removed when the monitor is mounted in a rack.

**2 Screen**
A removable shield protecting the liquid crystal shutter is provided.

**3 Feet**
Can be removed when the monitor is mounted in a rack.

**4 Stand**
To use the stand, pull it out to about 94°. The monitor will be tilted about 18°.
Can be removed when the monitor is mounted in a rack.
* DO NOT push down on the monitor from above or place heavy objects on it when the stand is pulled out.

**5 VOLUME –/+ Buttons**
Usually used as VOLUME –/+ buttons to adjust the volume.
– : Decreases the volume
+ : Increases the volume
* While MENU is displayed, used to adjust (set) MENU items.

**6 VIDEO A Button**
Press this button to select the video signal input to the VIDEO A terminal and the audio signal input to the AUDIO IN A terminal.
The button lights in green when VIDEO A is selected.

**7 VIDEO B Button**
Press this button to select the video signal input to the VIDEO B terminal and the audio signal input to the AUDIO IN B terminal.
The button lights in green when VIDEO B is selected.

**8 MENU Button**
Press this button to access the menu for performing settings and adjustments on the monitor.
The selected item displayed on the menu changes each time this button is pressed.

**9 BLUE CHECK Button**
Press this button to use the blue check function.
The blue check function helps make the CHROMA and PHASE settings more accurate.

**10 SIZE SELECT Button**
Press this button to change the screen size.
The screen size changes each time this button is pressed.

**11 POWER Switch/Indicator**
Press this switch to turn the power ON or OFF.
The POWER indicator lights in green when the power is ON.

### RIGHT VIEW

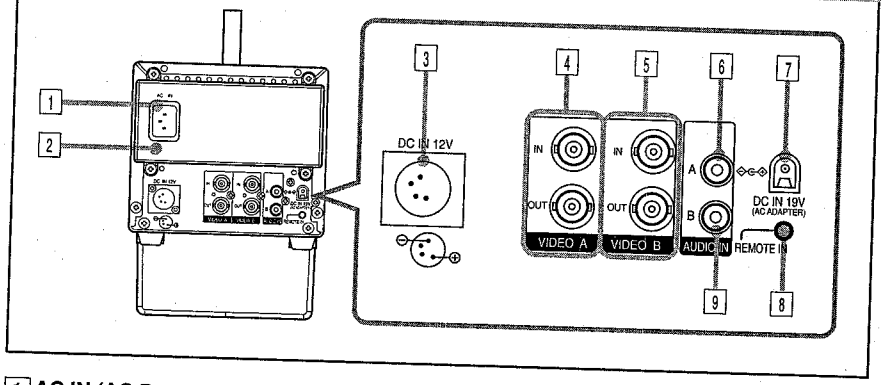
**12 Earphone Terminal**
Stereo minijack output terminal.
(Actual output is monaural.)

**13 Built-in Speaker**
A built-in speaker is located in the right panel when the monitor is viewed from the front.
(When earphones are connected to the earphone terminal, no sound is output from the speaker.)

**14 Intake Fan**
DO NOT cover the intake fan or ventilation slot as this could cause the monitor to overheat, resulting in a fire or malfunction.

# CONTROLS AND FEATURES (cont'd)

## PRODUCT: REAR VIEW




**1 AC IN (AC Power Input) Terminal**
Power input terminal.
Connect the provided power cord to the terminal.

**2 AC Adapter**
Can be removed when a commercial DC power supply (DC 12 V) is used.

**3 DC IN 12 V (DC Power Input) Terminal**
Connect a commercial DC power supply.
(Consult your dealer for usable DC power supplies.)

**4 VIDEO A Terminals**
BNC video signal input (IN) and output (OUT) terminals. The output terminal is bridge-connected (auto termination).
**IN** : Connect to the composite video signal output terminal of a video camera, etc.
**OUT** : Connect to the composite video signal input terminal of a VCR, etc.

**5 VIDEO B Terminals**
BNC video signal input (IN) and output (OUT) terminals. The output terminal is bridge-connected (auto termination).
**IN** : Connect to the composite video signal output terminal of a video camera, etc.
**OUT** : Connect to the composite video signal input terminal of a VCR, etc.

**6 AUDIO IN A Terminal**
RCA-pin monaural audio signal input terminal.
Connect it to the audio signal output terminal of the video camera, etc. connected to the VIDEO A input (IN) terminal.

**7 DC IN 19 V Terminal (Exclusively for Provided AC Adapter)**
Connect the provided AC adapter to this terminal.
* DO NOT use any AC adapter other than the one provided.

**8 REMOTE IN (Remote Control Input) Terminal**
Mini-jack input terminal.
A wired remote control can be connected to this terminal.
(Consult your dealer for details.)

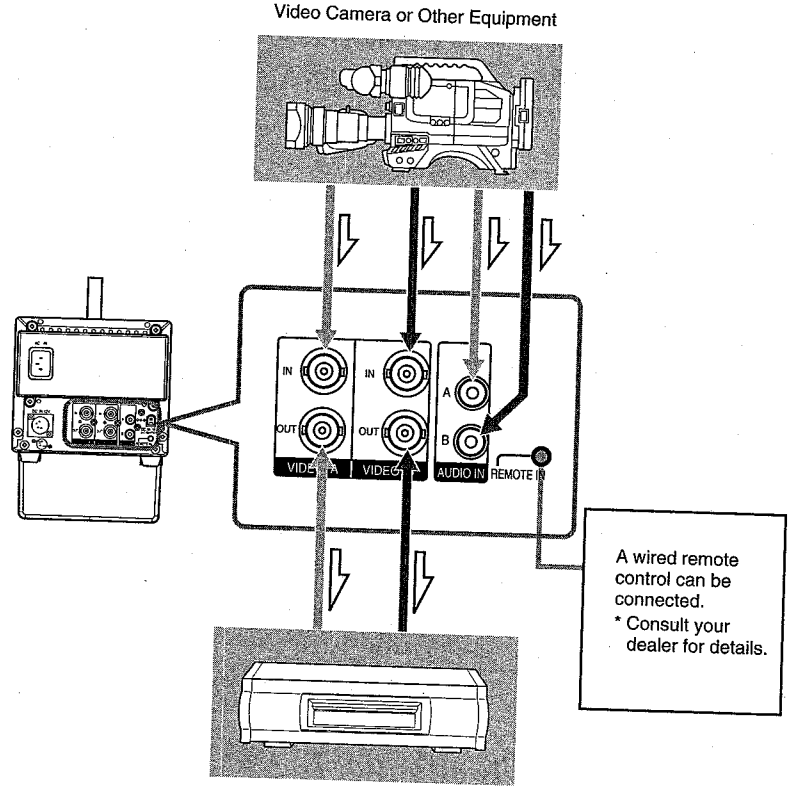
**9 AUDIO IN B Terminal**
RCA-pin monaural audio signal input terminal.
Connect it to the audio signal output terminal of the video camera, etc. connected to the VIDEO B input (IN) terminal.



# BASIC CONNECTION EXAMPLES

- Before connecting your system, make sure that all units are turned off.
- If you are not connecting any equipment to one of the bridged video output (VIDEO OUT) terminals, be sure NOT to connect any cables to the terminal as this will cause the terminating resistance switch to open (auto terminate function).
- DO NOT connect a piece of equipment to the same pair of video input (VIDEO IN) and video output (VIDEO OUT) terminals.
- Also refer to the instructions of the equipment being connected.

: VIDEO A Connection Example
: VIDEO B Connection Example
: Signal Flow




ENGLISH

# PREPARING THE POWER SUPPLY

**Precautions**

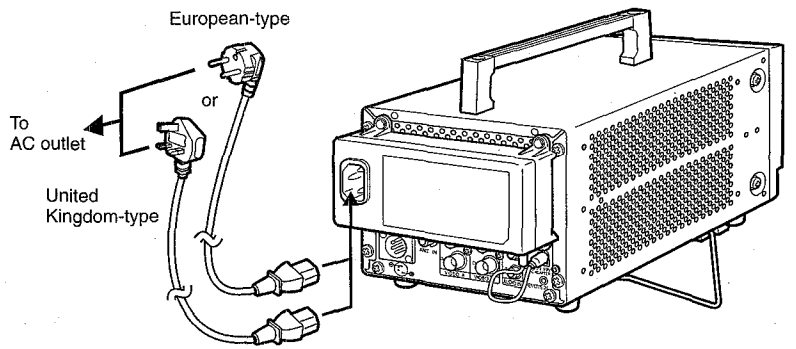
Use one of the following power supplies:

- AC power supply (100 V AC – 240 V AC, 50 Hz/60 Hz): Use the provided power cord.
  * This monitor includes two power cords: one with a United Kingdom-type plug and the other with a European-type plug. Be sure to use the proper power cord for the AC outlet in your country. If neither can be used, please contact your dealer or qualified service personnel for the correct power cord.
- DC power supply (12 V DC): Use any brand of external DC battery pack (commercial) or other DC power supply.

## INDOOR USAGE (AC Power Supply)

Connect the provided power cord to the AC IN (AC power input) terminal and an AC outlet.

- When AC power supply is used, the power from the DC IN 12 V (DC power input) terminal is automatically cut off.




**Note:**

- DO NOT use any AC adapter other than the one provided, otherwise it may cause a malfunction.

## OUTDOOR USAGE (DC Power Supply)

Connect any commercial brand of external DC battery pack or other DC power supply to DC IN 12 V (DC power input) terminal with the exclusive power cord.

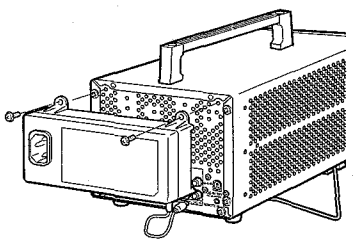
**Connection example: using an external DC battery pack**

Before performing the following, be sure to unplug the power cord.

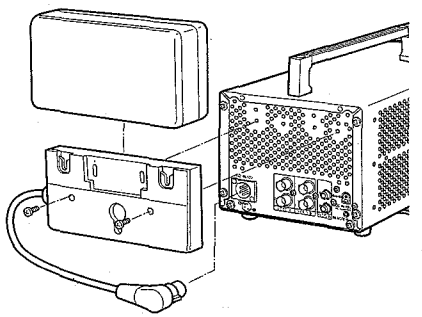
The DC battery pack fits into the attachment holes on the back of the monitor.

- The screw holes for fixing the DC battery are M4 size and have a depth of 12 mm. The fixing screws must be less than 12 mm long.

### *1* Remove the AC Adapter.



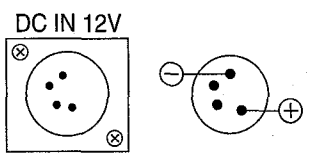
### *2* Attach the DC Battery Pack.



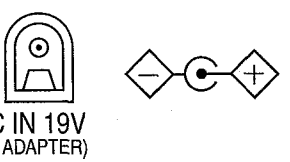
**Notes:**

- Do not leave the monitor connected to a battery via the DC IN 12 V (DC power input) terminal for long periods when the monitor is not in use.
  A slight electrical current is passed to the battery protection circuit even when the power is turned off, which consumes battery power.
- Consult your dealer for usable DC 12 V power supplies.
- Bauer, PAG or other commercial brand of external DC battery pack can be used.
- Consult your dealer for details.

■ **Electrical Polarity of DC IN 12 V (DC Power Input) Terminal**

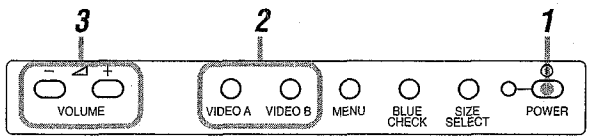



■ **Electrical Polarity of DC IN 19 V (Exclusively for AC Adapter Input) Terminal**



# BASIC OPERATIONS

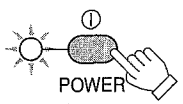
## MONITORING THE PICTURE



Front operation panel

**Precautions**

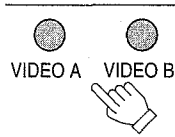
- Connect video components properly to the connection terminals on the rear of the monitor. (☞ pages 6 and 7)




### 1 Press the power button to turn the power ON.

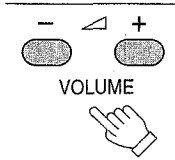
The power indicator lights in green.

- To turn the power OFF, press the power button again.



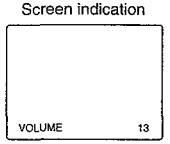

### 2 Select a video input with the VIDEO A or VIDEO B button.

The button pressed lights in green.




### 3 Adjust the volume with the VOLUME –/+ buttons.

Screen indication




**POWER Indicator**

The status of the POWER indicator varies depending on the following conditions:

| | |
|---|---|
| **Unlit** | Power OFF |
| **Lights in green** | Power ON, usual operation |
| **Lights in orange** *1 | Low voltage from DC power supply (battery, etc.) |
| **Lights in red** *1 | Battery protection circuit active |
| **Blinks in green** | Power save function active |

*1: The colour of the POWER indicator does not show the exact status of the battery. Depending on the battery type, the power may be cut off even before the POWER indicator lights in orange/red. This is due to characteristics of the battery or the operation of the battery protection circuit, and is not a malfunction. If this occurs, recharge the battery.

**Screen Indication**

The screen indication disappears about 8 seconds after button operation.

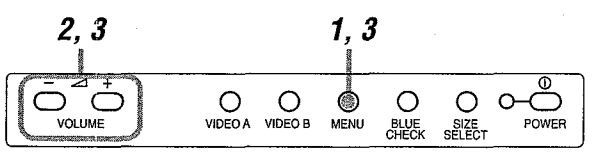
**Unsuitable Environments for Viewing**

- Watching the monitor in a room that is too dark can damage your eyes. Keep the room properly lit.
  Watching the monitor for long periods can also damage your eyes. Be sure to take occasional breaks.
- The picture may appear distorted depending on the environment around the monitor. If it does, DO NOT use the monitor as it could damage your eyes.



# SETTINGS AND ADJUSTMENTS

## BASIC MENU OPERATION

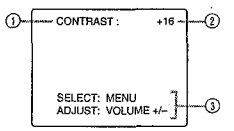


Front operation panel

### 1 Press the MENU button to select the desired item to adjust (set).

The selected item changes each time the MENU button is pressed. The currently selected item is displayed on the monitor.

Screen indication

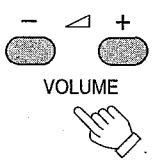



**Screen Indications**

① Item
② Adjusting (setting) value
③ Help indication

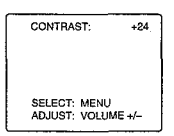
→ CONTRAST → BRIGHTNESS → SHARPNESS → CHROMA → PHASE → COLOR SYSTEM → POWER SAVE → COLOR SW →•••••

* Some items may not be displayed depending on which input mode is selected. Items that are not displayed cannot be adjusted (set).




### 2 Adjust (set) the item selected in procedure 1 with the VOLUME –/+ buttons.

* When adjusting, the help indicator disappears. It is displayed again 2 seconds after adjustment is complete.



Ex. Adjusting CONTRAST

### 3 Repeat procedures 1 and 2 to adjust (set) more items.

* Refer to MENU CONTENTS on the next page for the name of each item.



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# SETTINGS AND ADJUSTMENTS (cont'd)

## MENU CONTENTS

You can adjust (set) the following items on the menu screen. Each adjusted (set) value is automatically memorised.
The values inside [ ] are the factory presets.

**1 CONTRAST (Picture Contrast)**
Adjusts the picture contrast. Decreasing the value lowers the contrast, and increasing the value raises it.
Adjustable range: –30 to +30 [0]

**2 BRIGHTNESS (Picture Brightness)**
Adjusts the picture brightness.
Decreasing the value makes the picture darker, and increasing the value makes it brighter.
Adjustable range: –30 to +30 [0]

**3 SHARPNESS (Picture Sharpness)**
Adjusts the picture sharpness.
Decreasing the value makes the picture softer, and increasing the value makes it more sharp.
Adjustable range: –30 to +30 [0]

**4 CHROMA (Picture Chroma)**
Adjusts the picture chroma.
Decreasing the value makes the picture lighter, and increasing the value makes it deeper.
Adjustable range: –30 to +30 [0]

**5 PHASE (Picture Phase)**
Adjusts the picture phase.
Decreasing the value makes the picture more reddish, and increasing the value makes it more greenish.
Adjustable range: –30 to +30 [0]

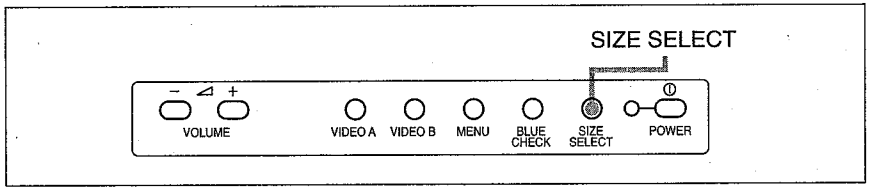
* PHASE can be adjusted only with NTSC video signals.
* PHASE is not displayed when PAL is selected.

**6 COLOR SYSTEM (Colour System)**
Displays the colour system (NTSC or PAL) used by the video equipment.

**7 POWER SAVE (Power Save)**
With the power save function set to ON (active), the monitor automatically enters standby mode when no video signal is input. When the power save function is active, the POWER indicator blinks in green. When a video signal is input, the power save function becomes inactive and the monitor is restored to normal operation.
Pressing any buttons on the front operation panel also sets the power save function to inactive. [OFF]

* The power save function becomes active when no video signal is input for over 30 seconds.

**8 COLOR SW**
Turns the picture into black and white for checking the white balance. [ON]

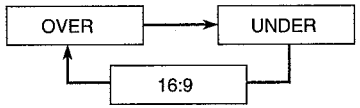



## SCREEN SIZE ADJUSTMENTS

Adjust the screen size to get the desired picture.

**Press the SIZE SELECT button.**

The screen size changes in the following order each time the SIZE SELECT button is pressed.




| | |
|---|---|
| OVER | suitable for monitoring a picture with a normal aspect ratio of 4:3 |
| UNDER | can monitor an entire picture with a normal aspect ratio of 4:3 by reducing its size |
| 16:9 | suitable for monitoring a picture with an aspect ratio of 16:9 |

**When using the screen mode adjustment function:**

- This monitor has a screen mode adjustment (SIZE SELECT) function. When a screen mode is selected that does not match the aspect ratio of the TV program or other video source you want to watch, the picture may appear different from the original.
- If you place this monitor in a public space (e.g. coffee shop, hotel lobby, etc.) for commercial purposes or for public exhibition, and if you use a screen mode adjustment (SIZE SELECT) function on the video image, it may be a violation of copyright law.

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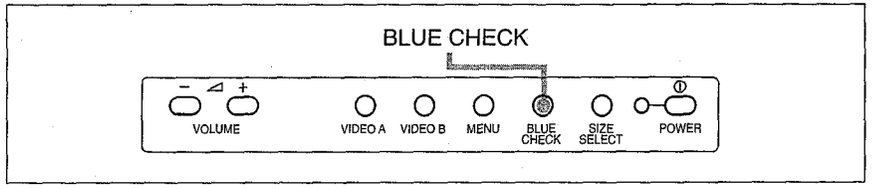
# SETTINGS AND ADJUSTMENTS (cont'd)




## BLUE CHECK FUNCTION

The blue check function cuts the red and green signal and displays only the blue signal.

The blue check function enables you to adjust CHROMA (picture chroma) or PHASE (picture phase) easily.

* PHASE can only be adjusted with NTSC video signals.

**Press the BLUE CHECK button.**

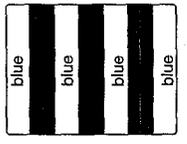
The blue check function switches ON (active) or OFF (inactive) each time the BLUE CHECK button is pressed.

### Adjusting CHROMA (picture chroma) or PHASE (picture phase) with the blue check function:

1 Input a standard colour bar (NTSC or PAL) signal to the VIDEO A IN or VIDEO B IN terminal at the rear of the monitor.

2 Press the VIDEO A or VIDEO B button to display the standard colour bars.

3 Press the BLUE CHECK button to turn the blue check function ON (active).




4 Adjust CHROMA (picture chroma) or PHASE (picture phase).

**When an NTSC colour bar signal is input:**

① Adjust CHROMA (picture chroma) so that the blue bars on the left and right side of the screen have the same brightness.

② Adjust PHASE so that the two blue bars at the centre of the screen have the same brightness.

③ Repeat procedure 1 and 2 so that all four blue bars on the screen have the same brightness.

**When a PAL colour bar signal is input:**

Adjust CHROMA (picture chroma) so that the blue bars on the left and right side of the screen have the same brightness.

* Refer to BASIC MENU OPERATION on page 11 for the adjustment procedure.

5 After adjustment is complete, press the BLUE CHECK button again to turn the blue check function OFF (inactive).



# TROUBLESHOOTING

**Before requesting repair, check the following points.**

| Problems | Points to be checked | Measures (remedy) |
|---|---|---|
| **No power supply.** | Is the power plug loosened or disconnected? | Firmly insert the power plug. |
| | Is the battery charged properly? (when a DC power supply is used) | Charge the battery or replace the charged battery (refer to the battery charger you are using). |
| **No picture with the power on.** | Is the signal output from the connected equipment? | Set the connected equipment correctly. |
| | Is the input signal selected correctly? | Select the correct input. |
| | Is the video signal cable disconnected? | Connect the video signal cable firmly. |
| **No sound.** | Is the audio signal output from the connected equipment? | Set the connected equipment correctly. |
| | Is the volume set to minimum? | Adjust the volume properly. |
| | Is the audio signal cable disconnected? | Connect the audio signal cable firmly. |
| **Picture is shaking.** | Is the monitor close to a motor, transformer or other device generating a strong magnetic field? | Move the monitor away from the device until the picture stops shaking. |
| **No colours, wrong colours, or dark picture.** | Has COLOR SW been set to OFF? | Set COLOR SW to ON in the menu. |
| | Has the picture control setting (CONTRAST, BRIGHTNESS, CHROMA or PHASE) been changed? | Adjust each setting to the standard value [0]. |
| **Some parts of the picture are distorted.** | Is the monitor close to a speaker or magnet? Did you move a speaker or magnet close to the monitor? | Keep speakers and magnets away from the monitor. |
| **There are black parts on the top and bottom of the screen, and both horizontal sides of the picture is indented.** | Is the screen size set to 16:9? | Set the screen size to OVER or UNDER. |

(continued on the next page)

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# TROUBLESHOOTING (cont'd)

| Problems | Points to be checked | Measures (remedy) |
|---|---|---|
| **The screen size is small.** | Is the screen size set to UNDER? | Set the screen size to OVER. |

**The following are not malfunctions:**

- The monitor emits a strange sound when the room temperature changes suddenly. This is only a problem if an abnormality appears on the screen as well.
- If two or more monitors are operated next to each other, their images may shake or be distorted. This phenomenon is due to mutual interference; it is not a malfunction. Move the monitors away from each other until the interference disappears or turn the power off on any monitor that is not being used.
- If a magnet or speaker is placed close to the monitor, the picture may shake. This is caused by the magnetic effect and is not a malfunction.
- When the monitor is turned ON, the sound of a running motor may be heard. This is the cooling fan and is not a malfunction.
- When playing back a video tape, the upper edge of the picture may be distorted. This is caused by skew distortion and is not a malfunction.
- Vertical stripes may occur on a dark picture. This is caused by quantisation noise (noise which occurs when a picture is digitised) and is not a malfunction.







# CHARACTERISTICS OF LCCS VIDEO MONITOR SYSTEM

## ■ PRINCIPLE BEHIND LCCS VIDEO MONITOR OPERATION

The LCCS Video Monitor is a combination of a black-and-white cathode-ray tube and liquid crystal colour shutter (LCCS), which are used together to reproduce colour images.
The video signal input to the monitor is demodulated into RGB primary colour signals which are then stored in the field memory. Signals in the field memory are read three times faster than the input video signal is, and are displayed on the black-and-white cathode-ray tube in the order of R, G and B. (Three images are displayed during one field.)
Colour filters on the liquid crystal colour shutter change according to the displayed primary colour signal, transforming the black-and-white images into R, G and B primary colour images.
Because of the phenomenon known as persistence of vision, the R, G and B primary colour images appear as a single colour image to the human eye.

## ■ FEATURES OF LCCS VIDEO MONITOR

**• High Contrast**

Thanks to its low permeability, the liquid crystal colour shutter (LCCS) does not reflect outside light as much, enabling it to reproduce high-contrast images even in direct sunlight.

**• High Resolution**

The use of a black-and-white cathode-ray tube (which has no picture elements) and a liquid crystal colour shutter (LCCS) allows it to display images at high resolution.

**• No Magnetic Interference**

Unlike with colour cathode-ray tubes, irregular colour does not occur on the display because the monitor does not have any colour elements.

**• No Moire Patterns**

Moire patterns (interference fringes) do not occur because the monitor does not have any colour elements.

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## ■ THE FOLLOWING ARE NOT MALFUNCTIONS:

- Picture hue changes depending on the angle from which the monitor is viewed.
  This is due to normal characteristics of the liquid crystal colour shutter.
- Two horizontal stripes are displayed on the upper and lower side of the picture.
  This is due to the structure of the liquid crystal colour shutter.
- Simple colour image is displayed for an instant.
  This is due to normal characteristics of the LCCS video monitor.
- Patterns such as spots are displayed when the monitor is turned ON or OFF.
  This is due to normal characteristics of the liquid crystal colour shutter.
- The colour of characters or images seem to be shifted.
  This is due to normal characteristic of the LCCS video monitor.
  When images combined with a Macrovision copy protection signal or jittery images from a VCR, etc. are displayed on the monitor, their colour may appear to be shifted.

# SPECIFICATIONS

| | |
|---|---|
| **Type** | : LCCS video monitor |
| **Colour System** | : NTSC/PAL |
| **Picture Tube** | : 12.7 cm measured diagonally, black and white |
| **Effective Screen Size** | : Width : 94.2 mm<br>Height : 70.7 mm<br>Diagonal : 114.3 mm |
| **Video Inputs** | : 2 line inputs, composite video, BNC connector x 4, 1 V(p-p), 75 Ω<br>Bridge connection possible, 75 Ω auto termination |
| **Audio Inputs** | : 2 line inputs, monaural, RCA-pin connector x 2, 0.5 V (rms), high-impedance |
| **REMOTE IN Input** | : 1 line input, minijack connector |
| **Built-in Speaker** | : 5 cm round x 1, 0.2 W output |
| **Environmental Conditions** | : Operating temperature: 0°C – 40°C<br>Operating humidity: 20% – 80% (non-condensing) |
| **Power Requirements** | : 100 V AC – 240 V AC 50 Hz/ 60 Hz or 12 V DC |
| **Power Consumption** | : 2 A (DC 19 V) (using an AC adapter)<br>3.5 A (DC 12 V) (using a battery) |
| **Weight** | : 3.3 kg (including AC adapter)<br>3.0 kg (not including AC adapter) |
| **Dimensions (W x H x D)** | : 146 mm x 181.3 mm x 291.8 mm<br>*Including AC adapter, carrying handle, feet and stand (stored) (power cord not included) |
| **Provided Accessories** | : AC power cord [United Kingdom-type (1.8 m)] x 1<br>AC power cord [European-type (1.8 m)] x 1<br>AC adapter [attached to monitor] x 1 |

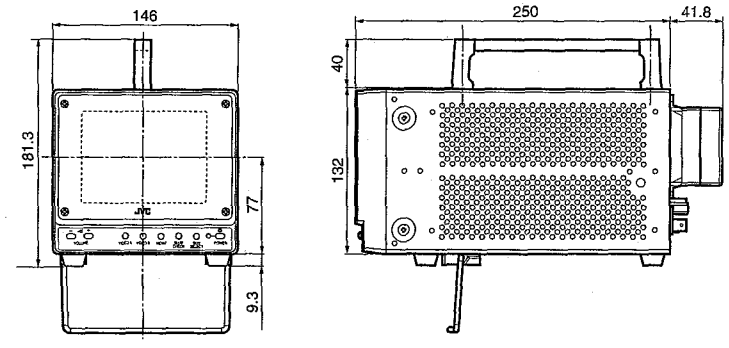
**Notes about Magnets**

- DO NOT place the following close to the monitor: magnets, speakers, electric clocks, devices or toys which use a magnet, medical devices which use a magnet, or any other products which generate a magnetic field. Doing so may cause the picture to be distorted by their magnetic effect. Also, DO NOT place the monitor close to a high-voltage power line or transformer.
- If an external speaker is placed close to the monitor, the picture may be distorted. In this case, use a shielded speaker.

* Dimensions and weight are approximate.
* E. & O.E. Design and specifications are subject to change without notice.
* Illustrations used in this manual have been exaggerated, abbreviated or compounded for explanatory purposes only. The appearance of the actual product may differ slightly.

**■ Dimensions**

Unit : mm

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